

Service Level Benchmarking - General Information of City Kanpur (2018-19)

70 input fields

S.No	Code	Input Nomenclature		Value	Logic/Remark
Demographics					
1	XA	Population (Census 2011)	Persons	2765348	input field
2	XB	Decadal Growth Rate of the City	%	12	input field
3	XC	Population (Present Year)	Persons	3011693	function of XA
4	XD	Number of Households (Census 2011)	Number	522242	input field
5	XE	Number of Households (Present Year)	Number	532665	function of XD
6	XF	Family Size (Census 2011)	Persons	5	XA/XD
7	XG	Family Size (Present Year)	Persons	6	XC/XE
8	XH	Number of Slums (2011)	Number	386	input field
9	XI	Number of Slums (Present Year)	Number	436	input field
10	XJ	Number of Slum Households (2011)	Number	114616	input field
11	XK	Number of Slum Households (Present Year)	Number	184668	input field
12	XL	Number of Properties (2011)	Number	349729	input field
13	XM	Number of Properties (Present Year)	Number	408362	input field
14	XN	Number of Election Wards (2011)	Number	110	input field
15	XO	Number of Election Wards (Present Year)	Number	110	input field
16	XP	Town/City Area (Census 2011)	sq.km	260	input field
17	XQ	Present Town/City Area	sq.km	260	input field
18	XR	Population Density (Present Year)	Number	11583.43462	XC/XQ
19	XS	Number of Commercial and other establishments (offices, institutions, markets), Hotels and Restaurants (Year 2011)	Number	59507	input field
20	XT	Number of Commercial and other establishments (offices, institutions, markets, Hotels and Restaurants)(Present Year)	Number	64921	input field
Service Provider Details - Water Supply					
21	XU	Name of Town/City	KANPUR		input field
22	XV	Name of the Department/Unit	JALKAL NAGAR NIGAM		input field
23	XW	Name of the Head of Department/Unit	Mr. Sanjay Sinha		input field
24	XX	Designation of the Department Head	GENERAL MANAGER		input field
25	XY	Address	BENAGHABAR KANPUR		input field
26	XZ	Telephone Number	0512-2548213		input field
27	YA	Mobile Number	9235553815		input field
28	YB	Fax Number	0512-2554072		input field
29	YC	Email	gmjkkapur@gmail.com		input field
30	YD	Website	www.jalkalkanpur.in		input field
31	YE	Name of the Contact Person	Mr. R.S. Kanojia		input field
32	YF	Designation of the contact person	secretary		input field
33	YG	Address	BENAGHABAR KANPUR		input field
34	YH	Telephone Number	0512-2548213		input field
35	YI	Mobile Number	9235553821		input field
36	YJ	Fax Number	0512-2554072		input field
37	YK	Email	gmjkkapur@gmail.com		input field
38	YL	Website	www.jalkalkanpur.in		input field
Service Provider Details - Sewerage and Drainage					
39	YM	Name of Town/ City	KANPUR	KANPUR	input field
40	YN	Name of the Department/Unit	JALKAL NAGAR NIGAM	NAGAR NIGAM ENGINNERING DEPARTMENT	input field
41	YO	Name of the Head of Department/Unit	Mr. Sanjay Sinha	Er. Kailash Singh	input field
42	YP	Designation of the Department Head	GENERAL MANAGER	CHIEF ENGINEER	input field
43	YQ	Address	BENAGHABAR KANPUR	Kanpur Nagar Nigam, Motijheel	input field
44	YR	Telephone Number	0512-2548213		input field
45	YS	Mobile Number	9235553815	8601800801	input field
46	YT	Fax Number	0512-2554072	0512-2525554	input field
47	YU	Email	gmjkkapur@gmail.com		input field
48	YV	Website	www.jalkalkanpur.in		input field
49	YW	Name of the Contact Person	Mr. R.S. Kanojia	Mr. Rashid Abbas	input field
50	YX	Designation of the contact person	secretary	Junior Engineer Technical	input field
51	YY	Address	BENAGHABAR KANPUR	KNN, Moti jheel , kanpur	input field
52	YZ	Telephone Number	0512-2548213		input field

53	ZA	Mobile Number	9235553821	86018008834	input field
54	ZB	Fax Number	0512-2554072	0512-2525554	input field
55	ZC	Email ID	gmjkkapur@gmail.com		input field
56	ZD	Website	www.jalkalkanpur.in	kmc.up.nic.in	input field
		Service Provider Details - Solid Waste Management	Earth Environment Management Services Private Limited		
57	ZE	Name of Town/Utility	Kanpur Nagar		input field
58	ZF	Name of the Head of the Department	Akhilesh Devedi/Sashank Shukla		input field
59	ZG	Designation of the Head of the Department	Deputy Manager operation/Manager HR and admin		input field
60	ZH	Address	Bhao Singh Panki NH-2 Kanpur U.P.		input field
61	ZI	Telephone Number	1149691000-2000		input field
62	ZJ	Mobile Number	8527097089		input field
63	ZK	Fax Number	1149691099		input field
64	ZL	Email ID	akhilesh.dwivedi@ilfsindia.com		input field
65	ZM	Website	www.ilfsenv.com/www.ilfsindia.com		input field
66	ZN	Name of the Contact Person	akhilesh Devedi		input field
67	ZO	Designation of the Contact Person	Deputy Manager operation		input field
68	ZP	Address	Bhao Singh Panki NH-2 Kanpur U.P.		input field
69	ZQ	Telephone Number	1149691000-2000		input field
70	ZR	Mobile Number	8527097089		input field
71	ZS	Fax Number	1149691099		input field
72	ZT	Email ID	akhilesh.dwivedi@ilfsindia.com		input field
73	ZU	Website	www.ilfsenv.com/www.ilfsindia.com		input field

Service Level Benchmarking - Water Supply Data (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
	I	COVERAGE OF WATER SUPPLY CONNECTIONS	%	72.7	63+14 input fields AU*100/XE
		<i>Water Service Coverage - Number of Connections</i>			
1	AA	Domestic Connections (Metered Functional)	Number	0	Input field
2	AB	Domestic Connections (Metered Non-Functional)	Number	0	Input field
3	AC	Domestic Connections (Unmetered)	Number	387410	Input field
4	AD	Domestic connections (Total)	Number	387410	(AA+AB+AC)
5	AE	Bulk supply Apartments (Metered Functional)	Number	0	Input field
6	AF	Bulk supply Apartments (Metered Non-Functional)	Number	0	Input field
7	AG	Bulk supply Apartments (Unmetered)	Number	0	Input field
8	AH	Bulk supply Apartments (Total)	Number	0	(AE+AF+AG)
9	AI	Bulk supply Layouts/Societies (Metered Functional)	Number	0	Input field
10	AJ	Bulk supply Layouts/Societies (Metered Non-Functional)	Number	0	Input field
11	AK	Bulk supply Layouts/societies (Unmetered)	Number	0	Input field
12	AL	Bulk supply Layouts/Societies (Total)	Number	0	(AI+AJ+AK)
13	AM	Others - Specify (Metered Functional)	Number	0	Input field
14	AN	Others - Specify (Metered Non-Functional)	Number	0	Input field
15	AO	Others - Specify (Unmetered)	Number	0	Input field
16	AP	Others - Specify (Total)	Number	0	(AM+AN+AO)
17	AQ	Total Number of Water Supply Connections	Number	387410	(AD+AH+AL+AP)
		<i>Water Service Coverage - Households Served</i>			
18	AR	Households served by Domestic Connections	Number	387410	Input field
19	AS	Households served by Bulk supply - Apartments	Number	0	Input field
20	AT	Households served by Bulk supply - Layouts/Societies	Number	0	Input field
21	AU	Total Households served with Water Supply	Number	387410	AR+AS+AT
		<i>*Households served by own sources such as wells, handpumps shall not be included</i>			
	II	PER CAPITA SUPPLY OF WATER	LPCD	114.55	(BC+BD+BE+BG+BJ)*10^6/XC
		<i>Water Production Capacity</i>			
22	AV	Installed Capacity of Treatment Plants for Surface Water Sources	MLD	538	Input field
23	AW	Volume of water produced through Surface Water Sources	MLD	328.5	Input field
24	AX	Installed Capacity of Treatment Plants for Ground Water Sources	MLD	120	Input field
25	AY	Volume of water produced through Ground water (power pumps)	MLD	120	Input field
26	AZ	Volume of water produced through any Other Sources	MLD	0	Input field
27	BA	Total Installed Capacity	MLD	658	AV+AX
28	BB	Total Volume of water produced	MLD	448.5	AW+AY+AZ
		<i>Water Consumption</i>			
29	BC	Volume of water billed from Domestic Connections	MLD	320	Input field
30	BD	Volume of water billed from Bulk supply Apartments	MLD	0	Input field
31	BE	Volume of water billed from Bulk supply Layouts/Societies	MLD	0	Input field
32	BF	Volume of water billed from Non domestic Connections	MLD	6	Input field
33	BG	Volume of water billed from Public taps	MLD	0	Input field
34	BH	Volume of water billed from any other sources	MLD	0	Input field
35	BI	Total Volume of water billed	MLD	326	BC+BD+BE+BF+BG+BH
36	BJ	Total Volume of water unbilled (free supplies to Public taps)	MLD	25	Input field
37	BK	Total Volume of water unbilled (free connections eg. Religious institutions etc)	MLD	48	Input field
	III	EXTENT OF NON REVENUE WATER (NRW)	%	27.31	(BB-BI)*100/BB
38	BB	Total Volume of Water Produced	MLD	448.5	BB
39	BI	Total Volume of Water Billed	MLD	326	BI

SLB Code Sheet

	IV	EXTENT OF METERING OF WATER SUPPLY CONNECTIONS	%	-	(BL+BP+BT)*100/BU
40	BL	Non domestic incl. commercial/Indus/Instl. (Metered Functional)	Number	0	Input field
41	BM	Non domestic incl. commercial/Indus/Instl. (Metered Non-Functional)	Number	13059	Input field
42	BN	Non domestic incl. commercial/Indus/Instl. (Unmetered)	Number	0	Input field
43	BO	Non domestic incl. commercial/Indus/Instl. (Total)	Number	13059	BL+BM+BN
44	BP	Public taps (Metered Functional)	Number	0	Input field
45	BQ	Public taps (Metered Non-Functional)	Number	0	Input field
46	BR	Public taps (Unmetered)	Number	3400	Input field
47	BS	Public Taps (Total)	Number	3400	BP+BQ+BR
48	BT	Total number of metered and functional connections (domestic, bulk supply, others)	Number	0	AA+AE+AI+AM
49	BU	Total number of Water Supply Connections	Number	403869	AQ+BO+BS
	IV	CONTINUITY OF WATER SUPPLY	Hours per Day	8.00	(BW*BV/30)
		<i>Water Supply Frequency</i>			
50	BV	Days of supply per month	Number	30	Input field
51	BW	Average duration of each supply	Hours	8	Input field
	V	EFFECIENCY OF REDRESSAL OF COMPLAINTS	%	82.2	(BY*100/BX)
		<i>Consumer Services</i>			
52	BX	Complaints received during the year	Number	3228	Input field
53	BY	Complaints resolved within 24 hours during the year	Number	2652	Input field
	VI	QUALITY OF WATER SUPPLIED		98.56	(CQ*100/CP)
		<i>Treated Water Quality Surveillance</i>			
54	CA	Residual Chlorine - No. of Samples taken at the outlet of Water Treatment Plant (in a year)	Number	1825	Input field
55	CB	Residual Chlorine - No. of Samples taken at intermediate points (in a year)	Number	966	Input field
56	CC	Residual Chlorine - No. of Samples taken at consumer end (in a year)	Number	12584	Input field
57	CD	Total Samples taken for Residual Chlorine tests	Number	15375	CA+CB+CC
58	CE	Number of Samples Passed	Number	15117	Input field
59	CF	Physical/Chemical - No. of Samples taken at the outlet of Water Treatment Plant (in a year)	Number	304	Input field
60	CG	Physical/Chemical - No. of Samples taken at intermediate points (in a year)	Number	72	Input field
61	CH	Physical/Chemical - No. of Samples taken at consumer end (in a year)	Number	2489	Input field
62	CI	Total Samples taken for Physical and Chemical tests	Number	2865	CF+CG+CH
63	CJ	Number of Samples Passed	Number	2857	Input field
64	CK	Bacteriological - No. of Samples taken at the outlet of Water Treatment Plant (in a year)	Number	48	Input field
65	CL	Bacteriological - No. of Samples taken at intermediate points (in a year)	Number	32	Input field
66	CM	Bacteriological - No. of Samples taken at consumer end (in a year)	Number	164	Input field
67	CN	Total Samples taken for Bacteriological tests	Number	244	CK+CL+CM
68	CO	Number of Samples Passed	Number	244	Input field
69	CP	Total Number of Samples taken for all types of tests	Number	18484	CD+CI+CN
70	CQ	Total Tests Passed	Number	18218	CE+CJ+CO
	VII	COST RECOVERY IN WATER SUPPLY SERVICES	%	89.10	(DD*100/CY)
		<i>Financial Information - Operating Expenses</i>			
71	CR	Regular Staff and administration	Rs. Lakhs	5045.00	Input field
72	CS	Outsourced/Contract Staff Costs	Rs. Lakhs	191.00	Input field
73	CT	Electricity Charges/Fuel Costs	Rs. Lakhs	4199.00	Input field
74	CU	Chemical Costs	Rs. Lakhs	292.00	Input field
75	CV	Repairs/Maintenance Costs	Rs. Lakhs	387.00	Input field
76	CW	Bulk (Raw/Treated) Water Charges	Rs. Lakhs		Input field
77	CX	Other Costs	Rs. Lakhs	170.00	Input field
78	CY	Total Operating Expenditure	Rs. Lakhs	10284.00	CR+CS+CT+CU+CV+CW+CX
		<i>Financial Information - Operating Revenues</i>			
79	CZ	Arrears at the beginning of previous year (2017-18)	Rs. Lakhs	780.00	Input field
80	DA	Revenue demand from user charges	Rs. Lakhs		Input field
81	DB	Revenue demand from tax/cess - Water Service only	Rs. Lakhs	8973.00	Input field
82	DC	Revenue demand from other revenues (eg. connection costs/Donations etc)	Rs. Lakhs	190.00	Input field
83	DD	Total Revenue Demand for previous year	Rs. Lakhs	9163.00	DA+DB+DC
	VII	COLLECTION EFFICIENCY OF WATER SUPPLY RELATED CHARGES	%	84.50	(DF*100/DD)
84	DD	Total Revenue Demand for previous year (from user charges, taxes etc)	Rs. Lakhs	9163.00	DD
85	DE	Collection against arrears	Rs. Lakhs	305.00	Input field
86	DF	Collection against the current demand of previous year	Rs. Lakhs	7743.00	Input field
		Additional Information (Optional)			

SLB Code Sheet

Staff Information					
91	EA	Senior Management (Sanctioned)	Number	1	input field
92	EB	Senior Management (Working)	Number	1	input field
93	EC	Engineers (Sanctioned)	Number	60	input field
94	ED	Engineers (Working)	Number	26	input field
95	EE	Clerks/Accountants (Sanctioned)	Number	185	input field
96	EF	Clerks/Accountants (Working)	Number	123	input field
97	EG	Work Inspectors/Meter Readers (Sanctioned)	Number	46	input field
98	EH	Work Inspectors/Meter Readers (Working)	Number	6	input field
99	EI	Electricians/Fitters (Sanctioned)	Number	441	input field
100	EJ	Electricians/Fitters (Working)	Number	107	input field
101	EK	Lines men/plumbers (Sanctioned)	Number	0	input field
102	EL	Lines men/plumbers (Working)	Number	0	input field
103	EM	Labourers (Sanctioned)	Number	502	input field
104	EN	Labourers (Working)	Number	579	input field
105	EO	Total (Sanctioned)	Number	1235	EA+EC+EE+EG+EI+EK+EM
106	EP	Total (Working)	Number	842	EB+ED+EF+EH+EJ+EL+EN
WATER SUPPLY INDICATOR VALUES					
		Indicator	Unit		Reliability
1		Coverage of water supply connections	%	72.7	B
2		Per capita available of water at consumer end	Lpcd	114.6	B
3		Extent of metering of water connections	%	0.0	
4		Extent of Non Revenue Water	%	27.3	B
5		Continuity of water supply	Hours/Day	8.0	A
6		Efficiency in redressal of customer complaints	%	82.2	A
7		Quality of water supplied	%	98.6	A
8		Cost recovery in water supply services	%	89.1	A
9		Efficiency in collection of water supply related charges	%	84.5	A

Service Level Benchmarking - Sewerage and Drainage (2018-19)

(2018-19)					
S.No	Code	Input Nomenclature		Value	Logic/Remark
	I	COVERAGE OF TOILETS	%	100.0	31+26 input fields (FC*100/XM)
		<i>Sanitation Coverage</i>			
1	XM	Total Number of Properties in the City	Number	408362	XM
2	FA	Properties with toilets	Number	379776	Input field
3	FB	Households dependent on functional community toilets	Number	28586	Input field
4	FC	Total Number of Properties with access to toilets	Number	408362	FA+FB
	II	COVERAGE OF SEWAGE NETWORK SERVICES	%	64.54	(FD*100/XM)
5	XM	Total Number of Properties in the City	Number	408362	XM
6	FD	Properties with sewer connections	Number	263546	Input field
7	FE	Properties with onsite sanitary disposal	Number	0	Input field
	III	COLLECTION EFFICIENCY OF SEWAGE NETWORK	%	91.24	(FZ*100/FW)
		<i>Waste Water Production - Volume of Water Consumed and Waste Water Generated</i>			
8	FF	Volume of water consumed and billed from Domestic Connections	MLD	320	BC
9	FG	Volume of water consumed and billed from Bulk supply - Apartments	MLD	0	BD
10	FH	Volume of water consumed and billed from Bulk supply - Layouts/Societies	MLD	0	BE
11	FI	Volume of water consumed and billed from Non domestic Connections	MLD	6	BF
12	FJ	Volume of water consumed (both billed and unbilled) from Public taps	MLD	25	BG+BJ
13	FK	Volume of water from free supplies (other connections)	MLD	48	BK
14	FL	Volume of water consumed and billed from any other ULB sources	MLD	0	BH
15	FM	Volume of water consumed from any Non ULB water sources	MLD	0	Input field
16	FN	Total Water Consumption (billed and unbilled) from ULB and Non ULB sources)	MLD	399	FF+FG+FH+FI+FJ+FK+FL+FM
17	FO	Volume of waste water generated from Domestic Water Consumption	MLD	256	0.80*FF
18	FP	Volume of waste water generated from Bulk Supply - Apartments	MLD	0	0.80*FG
19	FQ	Volume of waste water generated from Bulk Supply - Layouts/Societies	MLD	0	0.80*FH
20	FR	Volume of waste water generated from Non Domestic Water Consumption	MLD	5	0.80*FI
21	FS	Volume of waste water generated from Public Tap Water Consumption	MLD	20	0.80*FJ
22	FT	Volume of waste water generated from free supplies (other connections)	MLD	38	0.80*FK
23	FU	Volume of waste water generated from other ULB source water consumption	MLD	0	0.80*FL
24	FV	Volume of waste water generated from Non ULB source Water consumption	MLD	0	0.80*FM
25	FW	Total Waste Water Generated	MLD	319	FO+FP+FQ+FR+FS+FT+FU+FV
		<i>Waste Water Collection and Treatment</i>			
26	FX	Volume of sewage actually treated at the Primary Treatment Plant	MLD	0	Input field
27	FY	Volume of sewage actually treated at Secondary Treatment Plant	MLD	291.25	Input field
28	FZ	Total Volume of Waste Water collected and Treated at Sewage Treatment Plants	MLD	291.25	FX+FY
	IV	ADEQUACY OF SEWAGE TREATMENT CAPACITY	%	129.70	(GC*100/FW)
29	GA	Installed Capacity of Primary Treatment Plant	MLD	0	Input field
30	GB	Installed Capacity of Secondary Treatment Plant	MLD	414	Input field
31	GC	Total Installed Capacity (Primary + Secondary Treatment)	MLD	414	GA+GB
32	FW	Total Waste Water Generated	MLD	319	FW
	V	EXTENT OF REUSE AND RECYCLING OF SEWAGE	%	42.92	(GD*100/FY)
33	FY	Volume of sewage actually treated at Secondary Treatment Plant	MLD	291.25	FY
34	GD	Volume of treated waste water reused after Secondary Treatment	MLD	125	Input field
	VI	QUALITY OF SEWAGE TREATMENT	%	69.53	(GF*100/GE)
		<i>Discharge Compliance after Secondary Treatment of Sewage</i>			
35	GE	Number of Treated Effluent Samples Tested in the previous year	Number	1480	Input field
36	GF	Number of Treated Effluent Samples Passed in the previous year	Number	1029	Input field
	VII	EFFICIENCY IN REDRESSAL OF CUSTOMER COMPLAINTS	%	80.45	(GH*100/GG)
		<i>Consumer Services</i>			
37	GG	Sewage related Complaints received during the year	Number	9650	Input field
38	GH	Sewage related Complaints resolved within 24 hours during the year	Number	7763	Input field

VIII		EXTENT OF COST RECOVERY IN SEWAGE MANAGEMENT	%	82.8	(GU*100/GP)
		<i>Financial Information - Annual Operating Expenses</i>			
39	GI	Regular Staff and Administration	Rs. Lakhs	2947.00	Input field
40	GJ	Outsourced /Contract Staff Costs	Rs. Lakhs	60.00	Input field
41	GK	Electricity Charges /Fuel Costs	Rs. Lakhs	163.00	Input field
42	GL	Chemicals Costs	Rs. Lakhs		Input field
43	GM	Repairs/Maintenance Costs	Rs. Lakhs	390.00	Input field
44	GN	Contractor Costs for O&M	Rs. Lakhs		Input field
45	GO	Others (Specify)	Rs. Lakhs	170.00	Input field
46	GP	Total Annual Operating Expenses	Rs. Lakhs	3730.00	GI+GJ+GK+GL+GM+GN+GO
		<i>Financial Information - Annual Operating Revenues</i>			
47	GQ	Arrears at the beginning of previous year	Rs. Lakhs	250.00	Input field
48	GR	Revenue demand from user charges - sewerage only	Rs. Lakhs		Input field
49	GS	Revenue demand from tax/cess - sewerage only	Rs. Lakhs	2840.00	Input field
50	GT	Revenue demand from other sources (eg. connection costs/donations etc.)	Rs. Lakhs		Input field
51	GU	Total Revenue Demand of the previous year (Current Demand of previous year)	Rs. Lakhs	3090.00	GR+GS+GT
IX		EFFICIENCY IN COLLECTION OF SEWAGE CHARGES		65.2	(GW*100/GU)
52	GU	Total Revenue Demand of the previous year (Current Demand of previous year)	Rs. Lakhs	3090.00	GU
53	GV	Collection against arrears	Rs. Lakhs	101.00	Input field
54	GW	Collection against current demand	Rs. Lakhs	2016.00	Input field
		Additional Information (Optional)			
		Staff Information			
55	HA	Senior Management (Sanctioned)	Number		Input field
56	HB	Senior Management (Working)	Number		Input field
57	HC	Engineers (Sanctioned)	Number		Input field
58	HD	Engineers (Working)	Number		Input field
59	HE	Clerks/Accountants (Sanctioned)	Number		Input field
60	HF	Clerks/Accountants (Working)	Number		Input field
61	HG	Labourers/Cleaners (Sanctioned)	Number	458	Input field
62	HH	Labourers/Cleaners (Working)	Number	433	Input field
63	HI	Total (Sanctioned)	Number	458	
64	HJ	Total (Working)	Number	433	
		Septage Management			
65	HL	Does the ULB practice septage management	Yes/No	Yes	Input field
66	HM	Septage sucking machines available within ULB	Number	0	Input field
67	HN	Private Septage machines licenced by ULB	Number	0	Input field
		Connection Costs for Sewerage Connections			
68	HO	Residential - General	Rs	500	Input field
69	HP	Residential - Urban Poor	Rs	500	Input field
70	HQ	Institutional	Rs		Input field
71	HR	Commercial	Rs		Input field
72	HS	Industrial	Rs		Input field
		Sewerage Tariff Structure - Flat Rate Tariff			
73	HT	Residential - General	Rs./Month/seat	38	Input field
74	HU	Residential - Urban Poor	Rs./Month/seat	38	Input field
75	HV	Institutional	Rs./Month/seat	38	Input field
76	HW	Commercial	Rs./Month/seat	38	Input field
77	HX	Industrial	Rs./Month		Input field
		Sewerage Tariff Structure - Volumetric Tariff			
78	HY	Residential - General	Rs./KL		Input field
79	HZ	Residential - Urban Poor	Rs./KL		Input field
80	IA	Institutional	Rs./KL		Input field
81	IB	Commercial	Rs./KL		Input field
82	IC	Industrial	Rs./KL		Input field

Storm Water Drainage Data					
	I	COVERAGE OF STORM WATER DRAINAGE NETWORK	%	45.21	IE*100/ID
83	ID	Total Length of Road Network	Kilometers	5588.11	Input field
84	IE	Total Length of Pucca covered drains	Kilometers	2526.3	Input field
	II	INCIDENCE OF WATER LOGGING/FLOODING	Number	10.5	IF*IG
85	IF	Number of Flood Prone Points in the city	Number	7	Input field
86	IG	Average Frequency of Flooding	Number	1.5	Input field
SEWERAGE SERVICE INDICATOR VALUES					
S.No.		Indicator	Unit		Reliability
1		Coverage of Toilets	%	100.0	B
2		Coverage of wastewater network services	%	64.5	C
3		Collection efficiency of wastewater networks	%	91.2	A
4		Adequacy of wastewater treatment capacity	%	129.7	A
5		Extent of reuse and recycling of treated wastewater	%	42.9	A
6		Quality of wastewater treatment	%	69.5	A
7		Efficiency in redressal of customer complaints	%	80.4	A
8		Extent of cost recovery in wastewater management	%	82.8	A
9		Efficiency in collection of sewerage charges	%	65.2	A
STORM WATER DRAINAGE SERVICE INDICATOR VALUES					
S.No.		Indicator	Unit		Reliability
1		Coverage of Storm Water Drainage Network	%	45	C
2		Incidence of water logging/flooding	Number	11	C

Service Level Benchmarking - Solid Waste Management (2018-19)

S.No	Code	Input Nomenclature		Value	Logic/Remark
					65+17 input fields
	I	HOUSEHOLD LEVEL COVERAGE OF SOLID WASTE MANAGEMENT SERVICES		100	$KE*100/(XE+XT)$
		<i>Door to Door Collection - Number of HHs and establishments covered by Door to Door Collection</i>			
1	KA	Number of Households covered by Door to Door Collection	Number	532391	Input field
2	KB	Number of Hotels and Restaurants covered by Door to Door Collection	Number	588	Input field
3	KC	Number of Commercial Establishments (institutions, offices) covered by Door to Door Collection	Number	66128	Input field
4	KD	Collection	Number	453	Input field
5	KE	Total Number of Households and Establishments covered by Door to Door Collection	Number	599560	KA+KB+KC+KD
	II	EFFICIENCY OF COLLECTION OF MUNICIPAL SOLID WASTE		79	$IF(KO=0,(LO*100/KL),(KO*100/KL))$
		<i>Waste Generation</i>			
6	KF	Waste Generated by Households	MT/month	25740	Input field
7	KG	Waste Generated by Street Sweeping	MT/month	8580	Input field
8	KH	Waste Generated by Hotels and Restaurants	MT/month	260	Input field
9	KI	Waste Generated by Markets (Vegetable Markets, Mandis etc)	MT/month	7870	Input field
10	KJ	Waste Generated by Commercial Establishments (eg. Institutions, etc)	MT/month	360	Input field
11	KK	Waste Generated by other sources (eg. debris, horticulture waste etc)	MT/month	90	Input field
12	KL	Total Waste Generated	MT/month	42900	KF+KG+KH+KI+KJ+KK
		<i>Waste Collection and Transportation - Details of waste received at Processing/ Disposal Facilities</i>			
13	KM	Quantity of waste received at processing and recycling facilities	MT/month	31740	Input field
14	KN	Quantity of waste received at disposal sites	MT/month	4500	Input field
15	KO	Total waste received at processing/disposal facility and recycled	MT/month	33810	KM+KN+LQ-ME
		<i>Waste Collection and Transportation - Details of waste transported to Processing/ Disposal Facilities</i>			
16	KP	Number of lorries/trucks used for transportation of waste	Number	22	Input field
17	KQ	Capacity of each lorries/trucks	Metric Tons (MT)	8	Input field
18	KR	Total number of trips made by each lorries/trucks each day to the disposal site	Trips per day	3	Input field
19	KS	Total quantity of waste collected by mini lorries/trucks	MT/month	15840	KP*KQ*KR*30
20	KT	Number of dumper placers used for transportation of waste	Number	9	Input field
21	KU	Capacity of each dumper placer	Metric Tons (MT)	8	Input field
22	KV	Total number of trips made by each dumper placers each day to the disposal site	Trips per day	3	Input field
23	KW	Total quantity of waste collected by dumper placers	MT/month	6480	KT*KU*KV*30
24	KX	Number of mini lorries used for transportation of waste	Number	10	Input field
25	KY	Capacity of each mini lorry	Metric Tons (MT)	6	Input field
26	KZ	Total number of trips made by each mini lorries each day to the disposal site	Trips per day	3	Input field
27	LA	Total quantity of waste collected by mini lorries	MT/month	5400	KX*KY*KZ*30
28	LB	Number of tractor trailers used for transportation of waste	Number	12	Input field
29	LC	Capacity of each tractor trailer	Metric Tons (MT)	4.5	Input field
30	LD	Total number of trips made by each tractor trailer each day to the disposal site	Trips per day	3	Input field
31	LE	Total quantity of waste collected by tractor trailer	MT/month	4860	LB*LC*LD*30
32	LF	Number of tipper trucks used for transportation of waste	Number	4	Input field
33	LG	Capacity of each tipper trucks	Metric Tons (MT)	1.5	Input field
34	LH	Total number of trips made by each tipper trucks each day to the disposal site	Trips per day	4	Input field
35	LI	Total quantity of waste collected by tipper trucks	MT/month	720	LF*LG*LH*30
36	LJ	Number of 3 wheeler auto tippers used for transportation of waste	Number	0	Input field
37	LK	Capacity of each 3 wheeler auto tipper	Metric Tons (MT)	0	Input field
38	LM	Total number of trips made by each 3 wheeler auto tippers each day to the disposal site	Trips per day	0	Input field
39	LN	Total quantity of waste collected by 3 wheeler auto tippers	MT/month	0	LJ*LK*LM*30
40	LO	Total quantity of waste collected and transported to disposal site	MT/month	33300	KS+KW+LA+LE+LI+LN
	III	EXTENT OF SEGREGATION OF MUNICIPAL SOLID WASTE		101.53	$((LP+LQ)/IF(MH=0,LO,MH))*100$
		<i>Segregation of Waste</i>			
41	LP	Quantity of waste arriving at Processing/ Disposal facility in segregated manner	MT/month	31740	Input field
42	LQ	Quantity of waste taken away by recyclers from intermediate points	MT/month	2070	Input field

IV EXTENT OF MUNICIPAL SOLID WASTE RECOVERED			96.33	(MF/IF(KO=0,LO,KO))*100	
<i>Quantity of Waste Processing</i>					
43	LR	Installed Capacity of Composting Plant	MT/month	30000	Input field
44	LS	Waste Quantity Input at the Composting Plant	MT/month	19050	Input field
45	LT	Installed Capacity of Vermi-composting Plant	MT/month	0	Input field
46	LU	Waste Quantity Input at the Vermi-composting Plant	MT/month	0	Input field
47	LV	Installed Capacity of Refuse Derived Fuel	MT/month	0	Input field
48	LW	Waste Quantity Input at the Refuse Derived Fuel	MT/month	0	Input field
49	LX	Installed Capacity of Bio Methanation/ Waste-to-Energy Plants	MT/month	0	Input field
50	LY	Waste Quantity Input at Bio methanation/ Waste-to-Energy plants	MT/month	0	Input field
51	LZ	Installed Capacity of any other processing facilities	MT/month	500	Input field
52	MA	Waste Quantity Input at other processing facilities	MT/month	12690	Input field
53	MB	Total Installed Capacity of Processing facilities	MT/month	30500	LR+LT+LV+LX+LZ
54	MC	Total Waste Quantity Input at all types of processing facilities	MT/month	31740	LS+LU+LW+LY+MA
55	MD	Quantity of waste rejected by processing facilities at intake point	MT/month	0	Input field
56	ME	Quantity of post-processing rejects sent to dumpsite/ landfills	MT/month	4500	Input field
57	MF	Total Waste Processed in the ULB	MT/month	32570	IF(MC<MB,(MC+LQ-MD),(MB+LQ-MD))
V EXTENT OF SCIENTIFIC DISPOSAL OF MUNICIPAL SOLID WASTE					
<i>Quantity of Waste Disposal</i>					
58	MG	Quantity of waste disposed in compliant landfill sites	MT/month	4500	Input field
59	MH	Quantity of waste disposed in open dump sites	MT/month	0	Input field
VI EFFICIENCY IN REDRESSAL OF CUSTOMER COMPLAINTS					
<i>Customer Service</i>					
60	MI	Complaints received during the year	Number	1825	Input field
61	MJ	Complaints resolved within 24 hours during the year	Number	1825	Input field
VII EXTENT OF COST RECOVERY IN SWM SERVICES					
<i>Financial Information - Operational Expenditure on SWM during previous year</i>					
62	MK	Regular Staff & Administration	Rs. In Lakhs	206.91	Input field
63	ML	Outsourced/Contracted Staff Costs	Rs. In Lakhs	82.59	Input field
64	MM	Electricity Charges/Fuel Costs	Rs. In Lakhs	817.45	Input field
65	MN	Chemical Costs	Rs. In Lakhs	1.65	Input field
66	MO	Repair/Maintenance Costs	Rs. In Lakhs	137.18	Input field
67	MP	Contracted Services Cost	Rs. In Lakhs	0	Input field
68	MQ	Other Costs (Specify)	Rs. In Lakhs	188.2	Input field
69	MR	Total Operational Expenses	Rs. In Lakhs	1433.98	MK+ML+MM+MN+MO+MP+MQ
<i>Financial Information - Operational Revenues from SWM during previous year</i>					
70	MS	Arrears at the end of previous year	Rs. In Lakhs	0	Input field
71	MT	Tax / Cess - Solid Waste only	Rs. In Lakhs	0	Input field
72	MU	User Charges	Rs. In Lakhs	1500	Input field
73	MV	Fixed Charges based on Property Tax/ State Taxes/Cess/Surcharges	Rs. In Lakhs	0	Input field
74	MW	Sale of Recyclables	Rs. In Lakhs	3.25	Input field
75	MX	Sale from processing - compost/energy	Rs. In Lakhs	0	Input field
76	MY	Royalty	Rs. In Lakhs	0	Input field
77	MZ	Others (Specify)	Rs. In Lakhs	78.9	Input field
78	NA	Total Revenue Demand Raised for the previous year	Rs. In Lakhs	1582.15	MT+MU+MV+MW+MX+MY+MZ
VIII EFFICIENCY IN COLLECTION OF SWM CHARGES					
79	NA	Total Revenue Demand Raised for the previous year	Rs. In Lakhs	1582.15	NA
80	NB	Collection against arrears	Rs. In Lakhs	0	Input field
81	NC	Collection against Current Demand	Rs. In Lakhs	130	Input field

SLB Code Sheet

		Additional Information (Optional)			
Staff Information					
82	ND	Senior Management-Health Officer (Sanctioned)	Number	2	Input field
83	NE	Senior Management-Health Officer (Working)	Number	2	Input field
84	NF	Sanitary Inspector (Sanctioned)	Number	42	Input field
85	NG	Sanitary Inspector (Working)	Number	22	Input field
86	NH	Sanitary Supervisor (Sanctioned)	Number	184	Input field
87	NI	Sanitary Supervisor (Working)	Number	137	Input field
88	NJ	Maistries/Safai Karam chari (Sanctioned)	Number	7827	Input field
89	NK	Maistries/Safai Karam chari (Working)	Number	1978	Input field
90	NL	Cleaners/Drivers (Sanctioned)	Number	113	Input field
91	NM	Cleaners/Drivers (Working)	Number	62	Input field
92	NN	Labourers (Sanctioned)	Number	0	Input field
93	NO	Labourers (Working)	Number	2141	Input field
94	NP	Others Specify	Number	188	Input field
95	NQ	Total (Sanctioned)	Number	8168	ND+NF+NH+NJ+NL+NN
96	NR	Total (Working)	Number	4530	NE+NG+NI+NK+NM+NO+NP
SOLID WASTE MANAGEMENT INDICATORS					
		<i>Indicators</i>	<i>Unit</i>		<i>Reliability</i>
1		Household level coverage of solid waste management services	%	100.3	A
2		Efficiency of collection of municipal solid waste	%	78.8	A
3		Extent of segregation of municipal solid waste	%	101.5	A
4		Extent of municipal solid waste recovered	%	96.3	A
5		Extent of scientific disposal of municipal solid waste	%	100.0	A
6		Extent of cost recovery in solid waste management services	%	110.3	A
7		Efficiency in collection of solid waste management charges	%	8.2	A
8		Efficiency in redressal of customer complaints	%	100.0	A